

Refine Search

Search Results -

Terms	Documents
L2 AND (integrity ADJ rule)	0

Database:

US Pre-Grant Publication Full-Text Database
US Patents Full-Text Database
US OCR Full-Text Database
EPO Abstracts Database
JPO Abstracts Database
Derwent World Patents Index
IBM Technical Disclosure Bulletins

Search:

L3

Refine Search**Recall Text****Clear****Interrupt**

Search History

DATE: Saturday, September 17, 2005 [Printable Copy](#) [Create Case](#)**Set Name Query**

side by side

Hit Count Set Name

result set

DB=USPT; PLUR=NO; OP=OR

<u>L3</u>	L2 AND (integrity ADJ rule)	0	<u>L3</u>
<u>L2</u>	L1 AND integrity	44	<u>L2</u>
<u>L1</u>	717/108,116.ccls.	460	<u>L1</u>

END OF SEARCH HISTORY

Hit List

[Search Forms](#)[Search Results](#)[Help](#)[Clear](#)[Generate Collection](#)[Print](#)[Fwd:Refs](#)[Bkwd:Refs](#)[User Searches](#)[Generate OACS](#)[Preferences](#)[Logout](#)

Search Results - Record(s) 1 through 28 of 28 returned.

1. Document ID: US 20050193329 A1

Using default format because multiple data bases are involved.

L4: Entry 1 of 28

File: PGPB

Sep 1, 2005

PGPUB-DOCUMENT-NUMBER: 20050193329

PGPUB-FILING-TYPE: new

DOCUMENT-IDENTIFIER: US 20050193329 A1

TITLE: Systems and methods for creating page based applications using database metadata

PUBLICATION-DATE: September 1, 2005

INVENTOR-INFORMATION:

NAME	CITY	STATE	COUNTRY	RULE-47
Kickel, Craig S.	Boise	ID	US	

US-CL-CURRENT: 715/513; 707/1

[Full](#) | [Title](#) | [Citation](#) | [Front](#) | [Review](#) | [Classification](#) | [Date](#) | [Reference](#) | [Sequences](#) | [Attachments](#) | [Claims](#) | [TOC](#) | [Drafter](#)

2. Document ID: US 20050066338 A1

L4: Entry 2 of 28

File: PGPB

Mar 24, 2005

PGPUB-DOCUMENT-NUMBER: 20050066338

PGPUB-FILING-TYPE: new

DOCUMENT-IDENTIFIER: US 20050066338 A1

TITLE: Extensibility application programming interface and framework for meta-model objects

PUBLICATION-DATE: March 24, 2005

INVENTOR-INFORMATION:

NAME	CITY	STATE	COUNTRY	RULE-47
Bloesch, Anthony	Vashon	WA	US	
Rajagopal, Ramesh	Seattle	WA	US	

US-CL-CURRENT: 719/328

3. Document ID: US 20050066050 A1

L4: Entry 3 of 28

File: PGPB

Mar 24, 2005

PGPUB-DOCUMENT-NUMBER: 20050066050

PGPUB-FILING-TYPE: new

DOCUMENT-IDENTIFIER: US 20050066050 A1

TITLE: Data conveyance management

PUBLICATION-DATE: March 24, 2005

INVENTOR-INFORMATION:

NAME	CITY	STATE	COUNTRY	RULE-47
Dharamshi, Gautam	Mountain View	CA	US	

US-CL-CURRENT: 709/232

4. Document ID: US 20050027725 A1

L4: Entry 4 of 28

File: PGPB

Feb 3, 2005

PGPUB-DOCUMENT-NUMBER: 20050027725

PGPUB-FILING-TYPE: new

DOCUMENT-IDENTIFIER: US 20050027725 A1

TITLE: Database schema for structured query language (SQL) Server

PUBLICATION-DATE: February 3, 2005

INVENTOR-INFORMATION:

NAME	CITY	STATE	COUNTRY	RULE-47
Kagalwala, Raxit A.	Issaquah	WA	US	
Thompson, John Patrick	Seattle	WA	US	

US-CL-CURRENT: 707/100

5. Document ID: US 20040139116 A1

L4: Entry 5 of 28

File: PGPB

Jul 15, 2004

PGPUB-DOCUMENT-NUMBER: 20040139116

PGPUB-FILING-TYPE: new

DOCUMENT-IDENTIFIER: US 20040139116 A1

TITLE: Time in databases and applications of databases

PUBLICATION-DATE: July 15, 2004

INVENTOR-INFORMATION:

NAME	CITY	STATE	COUNTRY	RULE-47
Porter, Luke Martin Leonard	Birmingham		GB	

US-CL-CURRENT: 707/104.1

[Full](#) | [Title](#) | [Citation](#) | [Front](#) | [Review](#) | [Classification](#) | [Date](#) | [Reference](#) | [Sequences](#) | [Attachments](#) | [Claims](#) | [RICO](#) | [Drawings](#)

6. Document ID: US 20040111698 A1

L4: Entry 6 of 28

File: PGPB

Jun 10, 2004

PGPUB-DOCUMENT-NUMBER: 20040111698

PGPUB-FILING-TYPE: new

DOCUMENT-IDENTIFIER: US 20040111698 A1

TITLE: System and method for design, development, and deployment of distributed applications that share data from heterogeneous and autonomous sources over the Web

PUBLICATION-DATE: June 10, 2004

INVENTOR-INFORMATION:

NAME	CITY	STATE	COUNTRY	RULE-47
Soong, Edward L.W.	Andover	MA	US	
Zhang, Dawei	Highlands	NJ	US	
Zhu, Shijia	Westford	MA	US	

US-CL-CURRENT: 717/102; 717/104, 717/114

[Full](#) | [Title](#) | [Citation](#) | [Front](#) | [Review](#) | [Classification](#) | [Date](#) | [Reference](#) | [Sequences](#) | [Attachments](#) | [Claims](#) | [RICO](#) | [Drawings](#)

7. Document ID: US 20030229503 A1

L4: Entry 7 of 28

File: PGPB

Dec 11, 2003

PGPUB-DOCUMENT-NUMBER: 20030229503

PGPUB-FILING-TYPE: new

DOCUMENT-IDENTIFIER: US 20030229503 A1

TITLE: System and method for composite business interactions in electronic commerce

PUBLICATION-DATE: December 11, 2003

INVENTOR-INFORMATION:

NAME	CITY	STATE	COUNTRY	RULE-47
Dan, Asit	Pleasantville	NY	US	

Dias, Daniel Manuel	Mohegan Lake	NY	US
Janakiraman, Pradeep	Chennai	MA	IN
Tarafdar, Ashis	Newtonville		US

US-CL-CURRENT: 705/1

[Full](#) | [Title](#) | [Citation](#) | [Front](#) | [Review](#) | [Classification](#) | [Date](#) | [Reference](#) | [Sequences](#) | [Attachments](#) | [Claims](#) | [TOC](#) | [Drawings](#)

8. Document ID: US 20030208493 A1

L4: Entry 8 of 28

File: PGPB

Nov 6, 2003

PGPUB-DOCUMENT-NUMBER: 20030208493

PGPUB-FILING-TYPE: new

DOCUMENT-IDENTIFIER: US 20030208493 A1

TITLE: Object relational database management system

PUBLICATION-DATE: November 6, 2003

INVENTOR-INFORMATION:

NAME	CITY	STATE	COUNTRY	RULE-47
Hall, Bradley S.	Concord	CA	US	
Lunetta, Mark T.	Berkeley	CA	US	

US-CL-CURRENT: 707/100

[Full](#) | [Title](#) | [Citation](#) | [Front](#) | [Review](#) | [Classification](#) | [Date](#) | [Reference](#) | [Sequences](#) | [Attachments](#) | [Claims](#) | [TOC](#) | [Drawings](#)

9. Document ID: US 20030140027 A1

L4: Entry 9 of 28

File: PGPB

Jul 24, 2003

PGPUB-DOCUMENT-NUMBER: 20030140027

PGPUB-FILING-TYPE: new

DOCUMENT-IDENTIFIER: US 20030140027 A1

TITLE: Universal Programming Interface to Knowledge Management (UPIKM) database system with integrated XML interface

PUBLICATION-DATE: July 24, 2003

INVENTOR-INFORMATION:

NAME	CITY	STATE	COUNTRY	RULE-47
Huttel, Jeffrey	West Hempstead	NY	US	
Finkel, Arthur	Great Neck	NY	US	

US-CL-CURRENT: 707/1

[Full](#) | [Title](#) | [Citation](#) | [Front](#) | [Review](#) | [Classification](#) | [Date](#) | [Reference](#) | [Sequences](#) | [Attachments](#) | [Claims](#) | [TOC](#) | [Drawings](#)

10. Document ID: US 20030105732 A1

L4: Entry 10 of 28

File: PGPB

Jun 5, 2003

PGPUB-DOCUMENT-NUMBER: 20030105732

PGPUB-FILING-TYPE: new

DOCUMENT-IDENTIFIER: US 20030105732 A1

TITLE: Database schema for structure query language (SQL) server

PUBLICATION-DATE: June 5, 2003

INVENTOR-INFORMATION:

NAME	CITY	STATE	COUNTRY	RULE-47
Kagalwala, Raxit A.	Issaquah	WA	US	
Thompson, John Patrick	Seattle	WA	US	

US-CL-CURRENT: 707/1

Full	Title	Citation	Front	Review	Classification	Date	Reference	Sequences	Attachments	Claims	Field	Drawings
------	-------	----------	-------	--------	----------------	------	-----------	-----------	-------------	--------	-------	----------

11. Document ID: US 20030023868 A1

L4: Entry 11 of 28

File: PGPB

Jan 30, 2003

PGPUB-DOCUMENT-NUMBER: 20030023868

PGPUB-FILING-TYPE: new

DOCUMENT-IDENTIFIER: US 20030023868 A1

TITLE: Internal security system for a relational database system

PUBLICATION-DATE: January 30, 2003

INVENTOR-INFORMATION:

NAME	CITY	STATE	COUNTRY	RULE-47
Parent, Patrice P.	South Yarmouth	MA	US	

US-CL-CURRENT: 726/18; 707/9

Full	Title	Citation	Front	Review	Classification	Date	Reference	Sequences	Attachments	Claims	Field	Drawings
------	-------	----------	-------	--------	----------------	------	-----------	-----------	-------------	--------	-------	----------

12. Document ID: US 6850922 B1

L4: Entry 12 of 28

File: USPT

Feb 1, 2005

US-PAT-NO: 6850922

DOCUMENT-IDENTIFIER: US 6850922 B1

TITLE: Business logic support

DATE-ISSUED: February 1, 2005

INVENTOR-INFORMATION:

NAME	CITY	STATE	ZIP CODE	COUNTRY
Wason; James Richard	Tuxedo	NY		

US-CL-CURRENT: 706/47

ABSTRACT:

A mechanism to isolate and externalize the definition of business rules, and to support them using visual programming techniques (special editors for Java beans). This means that the rules can be set up by a business expert who does not need specialized programming skills. In addition, the Java beans are preferably implemented as dynamic Java beans.

14 Claims, 3 Drawing figures

Exemplary Claim Number: 1

Number of Drawing Sheets: 3

[Full](#) | [Title](#) | [Citation](#) | [Front](#) | [Review](#) | [Classification](#) | [Date](#) | [Reference](#) | [Claims](#) | [DOCID](#) | [Draw](#)

13. Document ID: US 6542883 B1

L4: Entry 13 of 28

File: USPT

Apr 1, 2003

US-PAT-NO: 6542883

DOCUMENT-IDENTIFIER: US 6542883 B1

TITLE: Ordering relational database operations according to referential integrity constraints

DATE-ISSUED: April 1, 2003

INVENTOR-INFORMATION:

NAME	CITY	STATE	ZIP CODE	COUNTRY
Salo; Timo J.	Apex	NC		

US-CL-CURRENT: 707/1; 707/104.1

ABSTRACT:

A method, system, and computer program product for increasing the efficiency of operations that are to be performed against an arbitrary relational database by automatically ordering the operations according to the referential integrity constraints defined for the affected tables. Because the ordering is performed programmatically, the application developer is relieved of the burden of attempting to structure the application in a manner that avoids violating the referential integrity constraints. The efficiency of modifying the database increases significantly using this technique. The ordering may be performed at a database engine. Existing applications may take advantage of this ordering technique, without requiring change to the application itself. Batch-mode write operations are possible when using this technique, thereby reducing the number of network round-

trips that must be performed.

33 Claims, 18 Drawing figures
Exemplary Claim Number: 1
Number of Drawing Sheets: 13

[Full](#) | [Title](#) | [Citation](#) | [Front](#) | [Review](#) | [Classification](#) | [Date](#) | [Reference](#) | [Search](#) | [Claims](#) | [TOC](#) | [Draw](#)

14. Document ID: US 6341369 B1

L4: Entry 14 of 28

File: USPT

Jan 22, 2002

US-PAT-NO: 6341369

DOCUMENT-IDENTIFIER: US 6341369 B1

TITLE: Method and data processing system for specifying and applying rules to classification-based decision points in an application system

DATE-ISSUED: January 22, 2002

INVENTOR-INFORMATION:

NAME	CITY	STATE ZIP CODE	COUNTRY
Degenaro; Louis Ralph	White Plains	NY	
Ehnebuske; David Lars	Georgetown	TX	
McKee; Barbara Jane Alspach	Austin	TX	
Rasmus; Kevin Paul	Bloomington	IL	
Rouvellou; Isabelle Marie Catherine	New York City	NY	

US-CL-CURRENT: 717/117; 706/47

ABSTRACT:

A method and apparatus for specifying, applying and managing rules used by an application in a data processing system are provided. A set of classification categories are specified, each classification category representing a different purpose of classification. A set of classifications are specified, each classification representing a possible outcome of an act of classifying. A set of control point names are specified, each name being associated with one or more control points in the application. A set of classification rules are specified, each such rule being associated with a classification category and said rule being adapted to analyze the state of the application and classify it by returning one or more classifications. A set of decision rules are specified, each such rule being associated with a classification and a control point name, said rule being adapted to affect the behavior of the application by calculating a value or making a decision. A set of control points is specified and built into the application at those points in the application flow at which variability of behavior controlled by rules is desired, each such control point being associated with a control point name and one or more classification categories. During the running of the application, when a control point as described above is encountered, the control point's associated classification categories are used to select that set of classification rules associated with any of the classification categories and the selected classification rules are then run.

38 Claims, 4 Drawing figures
Exemplary Claim Number: 1
Number of Drawing Sheets: 4

Full	Title	Citation	Front	Review	Classification	Date	Reference	Abstract	Keywords	DOI	Claims	Links	Download
------	-------	----------	-------	--------	----------------	------	-----------	----------	----------	-----	--------	-------	----------

15. Document ID: US 6122639 A

L4: Entry 15 of 28

File: USPT

Sep 19, 2000

US-PAT-NO: 6122639

DOCUMENT-IDENTIFIER: US 6122639 A

TITLE: Network device information collection and change detection

DATE-ISSUED: September 19, 2000

INVENTOR-INFORMATION:

NAME	CITY	STATE	ZIP CODE	COUNTRY
Babu; Vidya	Saratoga	CA		
Fredrich; Michael F.	Fremont	CA		
White; Christopher A.	Saratoga	CA		

US-CL-CURRENT: 707/103R

ABSTRACT:

Mechanisms for network device information collection and change detection are disclosed. A data Collection Engine is coupled to a database and a network having comprising devices such as switches and routers. The Collection Engine receives a network device name and queries the network to locate the named device. Based upon a device type identifier, the Collection Engine identifies the class of the device and a group of information sets that describe information needed from the device. The Collection Engine requests information described by the information sets and stores it in the database. A change detection mechanism compares the received information to a prior version in the database, and develops metadata describing changes in the versions. Accordingly, only a subset of all the information that a device can deliver is received and stored, based on the needs of an application using the mechanisms. A carrier wave may carry software program instructions that carry out the foregoing functions from a remote location.

9 Claims, 11 Drawing figures
Exemplary Claim Number: 1
Number of Drawing Sheets: 11

Full	Title	Citation	Front	Review	Classification	Date	Reference	DOI	Claim(s)	UDM	Dynamic DOI
------	-------	----------	-------	--------	----------------	------	-----------	-----	----------	-----	-------------

16. Document ID: US 5960087 A

L4: Entry 16 of 28

File: USPT

Sep 28, 1999

US-PAT-NO: 5960087
DOCUMENT-IDENTIFIER: US 5960087 A

TITLE: Distributed garbage collection system and method

DATE-ISSUED: September 28, 1999

INVENTOR - INFORMATION:

NAME	CITY	STATE	ZIP CODE	COUNTRY
Tribble; E. Dean	Los Altos Hills	CA		
Miller; Mark S.	Los Altos	CA		
Hardy; Norman	Portola Valley	CA		
Levy; Jacob Y.	Los Altos	CA		
Hill; Eric C.	Palo Alto	CA		
Hibbert; Christopher T.	Mountain View	CA		

US-CL-CURRENT: 713/167; 380/30, 380/59, 707/200, 707/205, 707/206, 719/315, 726/12

ABSTRACT:

A distributed garbage collection system and method is disclosed that is compatible with local ref-count or full garbage collection and that ensures that no local object's storage is deleted by the local garbage collector unless it is certain that there are no actual or potential remote references to that local object. The disclosed system and method are implemented in the context of a transparent distributed object system in which communications between objects in different processes are enabled by dedicated proxy objects that are linked to corresponding remote objects via a pair of transport objects. Additional proxy holder objects and proxy holder proxies ensure that objects for which third-party object references are passed (i.e., where one object in a first process passes a remote object in a second process a reference to a third object in a third process) are not collected until a direct link is established between the remote object in the second process and the third object in the third object space. As appropriate, secret number table pointers maintained by a local registrar for each object that has been accessed via a third party message are deleted, allowing the objects to be collected when there are no other actual or pending remote references to that object. The transport managers encrypt all inter-process messages so as to provide full capability security within the distributed system. This enables the disclosed garbage collection system and methods to operate under attack from misbehaving participants.

20 Claims, 20 Drawing figures

Exemplary Claim Number: 1

Number of Drawing Sheets: 19

Full	Title	Citation	Front	Backend	Classification	Date	Reference	Topics	Keywords	Claims	ICMC	Grant Date
------	-------	----------	-------	---------	----------------	------	-----------	--------	----------	--------	------	------------

17. Document ID: US 5852666 A

L4: Entry 17 of 28

File: USPT

Dec 22, 1998

US-PAT-NO: 5852666
DOCUMENT-IDENTIFIER: US 5852666 A

TITLE: Capability security for distributed object systems

DATE-ISSUED: December 22, 1998

INVENTOR-INFORMATION:

NAME	CITY	STATE	ZIP CODE	COUNTRY
Miller; Mark S.	Los Altos	CA		
Tribble; E. Dean	Los Altos Hills	CA		
Hardy; Norman	Portola Valley	CA		
Hill; Eric C.	Palo Alto	CA		
Hibbert; Christopher T.	Mountain View	CA		

US-CL-CURRENT: 713/167, 713/150, 719/310, 719/315

ABSTRACT:

A system providing capability security for distributed object systems is disclosed. The basic tenet of capability security is that the right to do something to an object (e.g., invoke a particular object's methods) is represented solely by the holding of a reference to that object. In each of the preferred embodiments described herein, an object is presumed to hold legitimately a reference to a particular object only if the object knows some unpublicized (except under the conditions required by capability security) key associated with the particular object. That is, an object's key is required along with the object's reference. So that capability security is preserved when object references are passed between objects in different processes, the object references being passed are encrypted upon transmission and then decrypted upon arrival at their intended destination. This cryptography can be performed by objects or processes using a variety of techniques, including Diffie-Helman or public/private key cryptography. The cryptography performed in the various embodiments ensures that only the intended recipient of the message can decode the object reference and that a misbehaving object cannot convince another object that it possesses a capability it does not have. Some of the disclosed embodiments provide capability security for distributed object systems wherein the objects and processes directly handle inter-object and inter-process communications and message encryption and decryption.

28 Claims, 20 Drawing figures

Exemplary Claim Number: 18

Number of Drawing Sheets: 19

Full	Title	Citation	Front	Review	Classification	Date	Reference	Image	Image	Claims	DOC	Draft
------	-------	----------	-------	--------	----------------	------	-----------	-------	-------	--------	-----	-------

18. Document ID: US 5781633 A

L4: Entry 18 of 28

File: USPT

Jul 14, 1998

US-PAT-NO: 5781633

DOCUMENT-IDENTIFIER: US 5781633 A

TITLE: Capability security for transparent distributed object systems

DATE-ISSUED: July 14, 1998

INVENTOR-INFORMATION:

NAME	CITY	STATE	ZIP CODE	COUNTRY
Tribble; E. Dean	Los Altos Hills	CA		
Miller; Mark S.	Los Altos	CA		
Hardy; Norman	Portola Valley	CA		
Hibbert; Christopher T.	Mountain View	CA		
Hill; Eric C.	Palo Alto	CA		

US-CL-CURRENT: 713/167; 380/30, 713/153, 713/168, 719/315, 726/17**ABSTRACT:**

A system providing capability security for distributed object systems is disclosed. The basic tenet of capability security is that the right to do something to an object (e.g., invoke a particular object's methods) is represented solely by the holding of a reference to that object. In each of the preferred embodiments described herein, an object is presumed to hold legitimately a reference to a particular object only if the object knows some unpublicized (except under the conditions required by capability security) key associated with the particular object. That is, an object's key is required along with the object's reference. So that capability security is preserved when object references are passed between objects in different processes, the object references being passed are encrypted upon transmission and then decrypted upon arrival at their intended destination. This cryptography can be performed by objects or processes using a variety of techniques, including Diffie-Helman or public/private key cryptography. The cryptography performed in the various embodiments ensures that only the intended recipient of the message can decode the object reference and that a misbehaving object cannot convince another object that it possesses a capability it does not have. Some of the disclosed embodiments provide capability security for transparent distributed object systems, wherein a pair of matched transports handle and encrypt inter-process communications between objects in their respective processes.

21 Claims, 20 Drawing figures

Exemplary Claim Number: 7

Number of Drawing Sheets: 19

Full	Title	Citation	Front	Review	Classification	Date	Reference	Claims	Table	Image
------	-------	----------	-------	--------	----------------	------	-----------	--------	-------	-------

 19. Document ID: US 5778370 A

L4: Entry 19 of 28

File: USPT

Jul 7, 1998

US-PAT-NO: 5778370

DOCUMENT-IDENTIFIER: US 5778370 A

TITLE: Data village system

DATE-ISSUED: July 7, 1998

INVENTOR-INFORMATION:

NAME	CITY	STATE	ZIP CODE	COUNTRY
Emerson; Mark L.	Los Angeles	CA	90066	

ABSTRACT:

The data village system (DVS) comprises an interactive computer system and software that enables a user to establish a data model that defines an organizational structure for an organization's data and that enforces the user's rules as to how the organization's data is manipulated and viewed. The data model for any organization, in its simplest form, consists of tables for receiving related datums, compartments of tables for receiving associated datums, and cables which connect tables thereby indicating linkages between datums in different tables. This basic conceptual underpinning can be expanded to groupings of linked tables into rooms, groupings of linked rooms into houses, and groupings of linked houses into data villages, a data village corresponding to the organization to which the data model pertains. The DVS provides the means for a user to define a data model for an organization in terms of compartments, tables, rooms, houses, and the interconnecting cables. The DVS functions in accordance with data organization rules which require that any user-data entered into a compartment be linked to other user-data in accordance with the data model. As a result of this organizational scheme, a user may request the display of the datums in a specified compartment and be alerted to and have available for display all other datums in the organization that pertain to the datums in the specified compartment.

160 Claims, 186 Drawing figures

Exemplary Claim Number: 1

Number of Drawing Sheets: 151

[Full | Title | Citation | Front | Review | Classification | Date | Reference] [Claims | PTOC | Drawings]

20. Document ID: US 5481700 A

L4: Entry 20 of 28

File: USPT

Jan 2, 1996

US-PAT-NO: 5481700

DOCUMENT-IDENTIFIER: US 5481700 A

**** See image for Certificate of Correction ****

TITLE: Apparatus for design of a multilevel secure database management system based on a multilevel logic programming system

DATE-ISSUED: January 2, 1996

INVENTOR-INFORMATION:

NAME	CITY	STATE	ZIP CODE	COUNTRY
Thuraisingham; Bhavani M.	Lexington	MA		

US-CL-CURRENT: 707/9; 706/45, 706/46, 706/50, 715/533

ABSTRACT:

Apparatus for designing a multilevel secure database management system based on a multilevel logic programming system. The apparatus includes a multilevel knowledge base which has a multilevel database in which data are classified at different security levels. The multilevel knowledge base also includes schema, which describe

the data in the database, and rules, which are used to deduce new data. Also included are integrity constraints, which are constraints enforced on the data, and security constraints, which are rules that assign security levels to the data. The system further includes users cleared to the different security levels for querying the multilevel database, and a multilevel logic programming system is provided for accessing the multilevel knowledge base for processing queries and for processing the integrity and security constraints. The multilevel database management system makes deductions and gives complete answers to queries and prevents certain unauthorized inferences.

5 Claims, 3 Drawing figures

Exemplary Claim Number: 1

Number of Drawing Sheets: 1

[Full](#) | [Title](#) | [Citation](#) | [Front](#) | [Review](#) | [Classification](#) | [Date](#) | [Reference](#) | [Claims](#) | [Brief](#) | [Drawings](#)

21. Document ID: US 5249300 A

L4: Entry 21 of 28

File: USPT

Sep 28, 1993

US-PAT-NO: 5249300

DOCUMENT-IDENTIFIER: US 5249300 A

TITLE: System and method of constructing models of complex business transactions using entity-set variables for ordered sets of references to user data

DATE-ISSUED: September 28, 1993

INVENTOR-INFORMATION:

NAME	CITY	STATE	ZIP CODE	COUNTRY
Bachman; Charles W.	Lexington	MA		
Gane; Christopher P.	New York	NY		
Krieger; David A.	Cambridge	MA		
Abramovich; Igor	Medford	MA		

US-CL-CURRENT: 707/104.1

ABSTRACT:

A computer system for building models of complex business transactions in an information management system. The system includes storage means for storing ordered sets of references to design data, such as entities. The ordered sets, or entity-sets, are assigned a value, and may then be manipulated in a manner similar to a data variable. The references may be ordered in accordance with predetermined criteria, or operator selected criteria.

8 Claims, 38 Drawing figures

Exemplary Claim Number: 1

Number of Drawing Sheets: 37

[Full](#) | [Title](#) | [Citation](#) | [Front](#) | [Review](#) | [Classification](#) | [Date](#) | [Reference](#) | [Claims](#) | [Brief](#) | [Drawings](#)

22. Document ID: US 5241645 A

L4: Entry 22 of 28

File: USPT

Aug 31, 1993

US-PAT-NO: 5241645

DOCUMENT-IDENTIFIER: US 5241645 A

TITLE: Computer system for creating and manipulating subsets of dynamic information systems models

DATE-ISSUED: August 31, 1993

INVENTOR-INFORMATION:

NAME	CITY	STATE	ZIP CODE	COUNTRY
Cimral; John J.	Framingham	MA		
Krieger; David A.	Cambridge	MA		
Ambramovich; Igor	Medford	MA		

US-CL-CURRENT: 703/2; 707/1

ABSTRACT:

A computer system for creating and manipulating subsets of dynamic information systems models of organizations. Generally, the system includes a plurality of dynamically linked modelers. The system includes a filter for creating a subset of a model. Each model subset is defined by operator-determined selection criteria. The subset is created by applying the selection criteria to the design data set of the model to be filtered. The resulting model subset may be displayed in a graphical representation. Such representations may enable the user to dynamically interact with the system.

20 Claims, 38 Drawing figures

Exemplary Claim Number: 3

Number of Drawing Sheets: 37

Full	Title	Citation	Front	Review	Classification	Date	Reference	Abstract	Claims	EDOC	Drawn
------	-------	----------	-------	--------	----------------	------	-----------	----------	--------	------	-------

23. Document ID: US 5212771 A

L4: Entry 23 of 28

File: USPT

May 18, 1993

US-PAT-NO: 5212771

DOCUMENT-IDENTIFIER: US 5212771 A

TITLE: System for establishing concurrent high level and low level processes in a diagram window through process explosion and implosion subsystems

DATE-ISSUED: May 18, 1993

INVENTOR-INFORMATION:

NAME	CITY	STATE	ZIP CODE	COUNTRY
------	------	-------	----------	---------

Gane; Christopher P.
Krieger; David A.

New York NY
Cambridge MA

US-CL-CURRENT: 715/854; 700/8, 715/803, 717/104

ABSTRACT:

A computer system for creating and manipulating subprocesses in a dynamic model of information management systems of organizations. The system enables a user to "explode" a process from a graphical representation, or diagram, into its corresponding subprocesses. By performing this process explosion, high-level processes and primitive processes are created. A high-level process is one which has one or more corresponding subprocesses, whereas a primitive process is one which has no corresponding subprocesses. A diagram may then be generated for each primitive process. In addition, the resulting exploded process may simultaneously be displayed with the displayed process from which it is derived. In a similar fashion, subprocesses may be "hidden" within a process, creating high-level processes from groups of primitive processes.

3 Claims, 38 Drawing figures

Exemplary Claim Number: 1

Number of Drawing Sheets: 37

Full	Title	Citation	Front	Review	Classification	Date	Reference	Subject	Language	Notes	Claims	Index	Copyright
------	-------	----------	-------	--------	----------------	------	-----------	---------	----------	-------	--------	-------	-----------

□ 24 Document ID: US 5195178 A

L4: Entry 24 of 28

File: USPT

Mar 16, 1993

US-PAT-NO: 5195178

DOCUMENT-IDENTIFIER: US 5195178 A

TITLE: Adaptive window system for dynamically modeling information systems

DATE-ISSUED: March 16, 1993

INVENTOR - INFORMATION:

NAME	CITY	STATE	ZIP CODE	COUNTRY
Krieger; David A.	Cambridge	MA		
Micco; John T.	Waltham	MA		

US-CL-CURRENT: 715/809; 715/810

ABSTRACT:

A computer system for establishing an adaptive window system within a dynamic model of information systems of organization. The system includes a plurality of editors which enable a user to interact with the system. The window system includes predetermined criteria against which design data of one or more of the editors is compared. An options window then displays those options which meet the criteria, generally corresponding to syntactically permissible options, at any time during the model building process.

13 Claims, 38 Drawing figures

Exemplary Claim Number: 1

Number of Drawing Sheets: 37

[Full | Title | Citation | Front | Review | Classification | Date | Reference | [REDACTED] | [REDACTED] | [REDACTED] | Claims | PTOC | Drawn]

25. Document ID: US 5193183 A

L4: Entry 25 of 28

File: USPT

Mar 9, 1993

US-PAT-NO: 5193183

DOCUMENT-IDENTIFIER: US 5193183 A

TITLE: System for accessing design data of modeler subsystems by reference to partnership set and for dynamically correlating design data of modeler subsystems

DATE-ISSUED: March 9, 1993

INVENTOR-INFORMATION:

NAME	CITY	STATE	ZIP CODE	COUNTRY
Bachman; Charles W.	Lexington	MA		

US-CL-CURRENT: 707/1; 715/533

ABSTRACT:

A computer system for dynamically modeling information systems of organizations by employing partnership sets. The system includes one or more editors which enable a user to interact with the system. The system includes a programmed data computer adapted to establish one or more partnership sets within at least one design data, where each partnership set is representative of zero, one or more partnerships. The computer is further adapted to establish one or more partnerships, wherein each partnership is characterized by one partnership set associated with itself or associated with one other partnership set. The computer controls access to one or more design data by reference to a partnership set which is in partnership with partnership sets of one or more design data.

7 Claims, 38 Drawing figures

Exemplary Claim Number: 1

Number of Drawing Sheets: 37

[Full | Title | Citation | Front | Review | Classification | Date | Reference | [REDACTED] | [REDACTED] | [REDACTED] | Claims | PTOC | Drawn]

26. Document ID: US 5193182 A

L4: Entry 26 of 28

File: USPT

Mar 9, 1993

US-PAT-NO: 5193182

DOCUMENT-IDENTIFIER: US 5193182 A

TITLE: Computer system for defining logical operations on design data including

retrieve entity-set, send, receive, signal, when, reference to entity-set, reference to entity method, connect and disconnect

DATE-ISSUED: March 9, 1993

INVENTOR-INFORMATION:

NAME	CITY	STATE	ZIP CODE	COUNTRY
Bachman; Charles W.	Lexington	MA		
Gane; Christopher P.	New York	NY		
Krieger; David A.	Cambridge	MA		
Micco; John T.	Waltham	MA		
Abramovich; Igor	Medford	MA		

US-CL-CURRENT: 707/100

ABSTRACT:

A computer system for processing information representative of complex business transactions. The system enables a user to define business logic within a dynamic information management system model. The system may include a plurality of editors which enable a user to dynamically create, analyze and modify design data. The system further includes graphical displays which enable a user to affect the operations to be performed on that design data.

14 Claims, 38 Drawing figures

Exemplary Claim Number: 1

Number of Drawing Sheets: 37

[Full](#) | [Title](#) | [Citation](#) | [Front](#) | [Review](#) | [Classification](#) | [Date](#) | [Reference](#)  [Claims](#) | [DDOC](#) | [Draw](#) | [...](#)

27. Document ID: US 5179698 A

L4: Entry 27 of 28

File: USPT

Jan 12, 1993

US-PAT-NO: 5179698

DOCUMENT-IDENTIFIER: US 5179698 A

TITLE: System for transforming user data in accordance with an algorithm defined by design data and for evaluating the transformed data against logical criteria

DATE-ISSUED: January 12, 1993

INVENTOR-INFORMATION:

NAME	CITY	STATE	ZIP CODE	COUNTRY
Bachman; Charles W.	Lexington	MA		
Krieger; David A.	Cambridge	MA		

US-CL-CURRENT: 707/4; 706/62

ABSTRACT:

A computer system for processing complex information representative of business transactions. Specifically, the system stores transaction data, which is then reversibly transformed in accordance with predetermined processing algorithms, while it is externally inaccessible. In this static state, the transformed transaction data is evaluated against predetermined logical criteria. The evaluation produces either successful or unsuccessful results. If successful, the transformed data is then made externally accessible. If unsuccessful, the original transaction data is made externally accessible.

29 Claims, 38 Drawing figures

Exemplary Claim Number: 17

Number of Drawing Sheets: 37

[Full](#) | [Title](#) | [Citation](#) | [Front](#) | [Previous](#) | [Classification](#) | [Date](#) | [Reference](#)     [Claims](#) | [TOC](#) | [Drawing](#)

28. Document ID: US 5146591 A

L4: Entry 28 of 28

File: USPT

Sep 8, 1992

US-PAT-NO: 5146591

DOCUMENT-IDENTIFIER: US 5146591 A

TITLE: Dynamic information management system utilizing entity-relationship information model in which the attribute is independent of an entity

DATE-ISSUED: September 8, 1992

INVENTOR-INFORMATION:

NAME	CITY	STATE	ZIP CODE	COUNTRY
Bachman; Charles W.	Lexington	MA		
Cimral; John J.	Framingham	MA		
Gane; Christopher P.	New York	NY		
Krieger; David A.	Cambridge	MA		
Micco; John T.	Waltham	MA		
Abramovich; Igor	Medford	MA		

US-CL-CURRENT: 707/102; 707/104.1, 717/104, 717/109

ABSTRACT:

A computer system for dynamically modeling information systems of organizations. The system includes a plurality of editors which enable a user to interact with the system. Included in the system is an information modeler, an information flow modeler, and a logic modeler for creating, analyzing and modifying design data associated with each modeler. Each of the modelers are dynamically interlinked, such that a change to one design data set will affect a corresponding change in other design data sets. The system includes graphic representations associated with each of the modelers to enable a user to interact with the system. The objects of each of the graphic representations may also be dynamically linked, such that a change in one representation affects a substantially immediate change in other representations.

89 Claims, 38 Drawing figures

Exemplary Claim Number: 1
Number of Drawing Sheets: 37

[Full](#) | [Title](#) | [Citation](#) | [Front](#) | [Review](#) | [Classification](#) | [Date](#) | [Reference](#) | [Claims](#) | [TOC](#) | [Drawings](#)

[Clear](#) | [Generate Collection](#) | [Print](#) | [Fwd Refs](#) | [Bkwd Refs](#) | [Generate OACS](#)

Terms	Documents
((object-oriented OR (object ADJ oriented))AND (integrity ADJ rule))	28

Display Format: [-] [Change Format](#)

[Previous Page](#) [Next Page](#) [Go to Doc#](#)